

NC/QC/DD-W13/2019-20/DC2-CB5A

Date: 16-09-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:**Sub:** Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE**CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	19-08-19	16-09-19	28	22500	520	23.11	22.74
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	510	22.67	

Page No. 1/1,


KIRAN. R
 M.E, (Civil-Engg)


 Asst. Executive Engineer
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 BBMP, Bangalore

For Newzen Consultants Bangalore


 Proprietor



NC/QC/DD-W13/2019-20/DC2-CB5

Date: 26-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

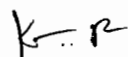
CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

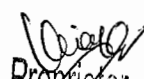
Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	19-08-19	26-08-19	07	22500	380	16.89	17.19
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	385	17.11	


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NC/QC/DD-W13/2019-20/DC2-CB4A

Date: 11-09-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

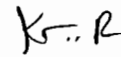
Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	14-08-19	11-09-19	28	22500	645	28.67	28.07
	002	"	"	"	"	635	28.22	
	003	"	"	"	"	615	27.33	

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A. J. Executive Engineer
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NC/QC/DD-W13/2019-20/DC2-CB3A

Date: 03-09-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	06-08-19	03-09-19	28	22500	625	27.78	28.07
	002	"	"	"	"	640	28.44	
	003	"	"	"	"	630	28.00	

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NC/QC/DD-W13/2019-20/DC2-CB2A

Date: 29-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

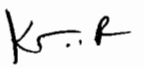
Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	01-08-19	29-08-19	28	22500	630	28.00	28.30
	002	"	"	"	"	645	28.67	
	003	"	"	"	"	635	28.22	

Page No. 1/1,


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NC/QC/DD-W13/2019-20/DC2-CB1A

Date: 26-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

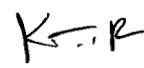
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-07-19	26-08-19	28	22500	635	28.22	28.52
	002	"	"	"	"	640	28.44	
	003	"	"	"	"	650	28.89	

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NC/QC/DD-W13/2019-20/DC2-CB4

Date: 21-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07 days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

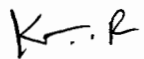
Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	14-08-19	21-08-19	07	22500	430	19.11	19.48
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	440	19.56	

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NC/QC/DD-W13/2019-20/DC2-CB3

Date: 13-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	06-08-19	13-08-19	07	22500	425	18.89	18.81
	002	"	"	"	"	435	19.33	
	003	"	"	"	"	410	18.22	

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NC/QC/DD-W13/2019-20/DC2-CB2

Date: 08-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

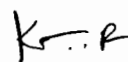
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₅

TABLE 1.1:

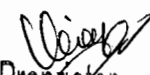
Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	01-08-19	08-08-19	07	22500	410	18.22	18.37
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	425	18.89	

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NC/QC/DD-W13/2019-20/DC2-CB1

Date: 05-08-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₅

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-07-19	05-08-19	07	22500	430	19.11	18.81
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	425	18.89	

Page No. 1/1,

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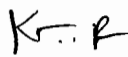


Date: 20-07-2019

TABLE – 2

SL No	Details	For 20 mm		For 25 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	20.0 mm	20.0 mm	25.0 mm	25.0 mm
02	Observed Wt/m Length Kg/m	2.471	2.366	3.853	3.697
03	Proof stress/Yield stress, f_y , N/mm ²	568.0	500.0	564.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	20.10	16.00	19.50	16.00
06	Ultimate Tensile Strength N/mm ²	628.0	565.0	647.0	565.0

Page No. 2/3,


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For Newzen Consultants Bangalore


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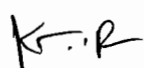


Date: 20-07-2019

TABLE - 2

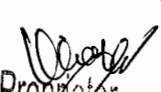
SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	12.0 mm	12.0 mm	16.0 mm	16.0 mm
02	Observed Wt/m Length Kg/m	0.894	0.834	1.586	1.483
03	Proof stress/Yield stress, f_y , N/mm^2	556.0	500.0	569.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	20.70	16.00	19.90	16.00
06	Ultimate Tensile Strength N/mm^2	615.0	565.0	634.0	565.0

Page No. 2/3,


KIRAN. R
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Project Division, Dasrahalli Zone
BBMP, Bangalore

For Newzen Consultants Bangalore


Proprietor



NC/QC/DD-W13/2019-20/DC2-S1

Date: 20-07-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 10, 12, 16, 20 and 25 mm TMT Steel.

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

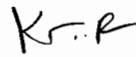
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

TABLE - 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm
02	Observed Wt/m Length Kg/m	0.396	0.363	0.627	0.567
03	Proof stress/Yield stress, f_y , N/mm ²	557.0	500.0	564.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	22.90	16.00	21.50	16.00
06	Ultimate Tensile Strength N/mm ²	631.0	565.0	639.0	565.0

Page No. 1/3,


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NC/QC/DD-W13/2019-20/DC2-CA1

Date: 17-07-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.75	85-100	90 - 100
10 mm	29.40	0 - 20	25 - 55
4.75 mm	2.85	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.92 %	Not to exceed 25 %
2.	Crushing value	27.11 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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Proprietor



NC/QC/DD-W13/2019-20/DC2-FA1

Date: 17-07-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -II	
04.75	97.65	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.10	60-95	75-100	85-100	
01.18	69.40	30-70	55-90	75-100	
600. mic	43.90	15-34	35-59	60-79	
300.mic	15.45	5-20	8-30	12-40	
150.mic	7.20	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	16.92 %	-----
2	Silt Content	----	0.60 %	Not more than 8%
3	Specific Gravity	----	2.61	-----

Page No. 1/1,

Asst. Executive Engineer
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K.R.
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NC/QC/DD-W13/2019-20/DC2-C2

Date: 17-07-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

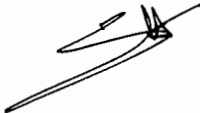
PHYSICAL TESTS ON CEMENT

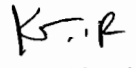
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	178 min	Shall not be less than 30 min
2	Final setting time	265 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.78 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.84 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.70 N/Sq mm	Shall not be less than 27 N/Sqmm

Page No. 1/1,


Asst. Executive Engineer
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NC/QC/DD-W13/2019-20/DC2-PCC1

Date: 08-07-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	64.92	0 -20	30- 70
10mm	31.40	0 -5	10- 35
4.75mm	4.17	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.40	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.75	60-95	75-100	85-100	
01.18	62.35	30-70	55-90	75-100	
600.mic	54.60	15-34	35-59	60-79	
300.mic	21.95	5-20	8-30	12-40	
150.mic	6.55	0-10	0-10	0-10	

Page No. 1/1,

Asst. Executive Engineer
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Proprietor

K.R.
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NC/QC/DD-W13/2019-20/DC2-C1

Date: 08-07-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Construction of Dialysis centre at Mallasandra in ward No: 13.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Govinda Raju. K.R.

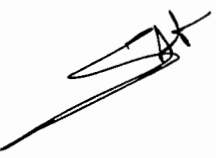
PHYSICAL TESTS ON CEMENT

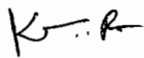
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	171 min	Shall not be less than 30 min
2	Final setting time	285 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.82 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.67 N/Sq mm	Shall not be less than 27 N/Sqmm

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Asst. Executive Engineer
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Proprietor